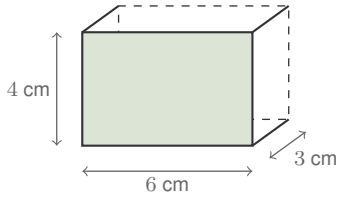
Use the π key unless a question says otherwise. Give answers to one decimal place where they are not exact. **Name the cross-section before you calculate anything.**

1 Find the volume of this cuboid.



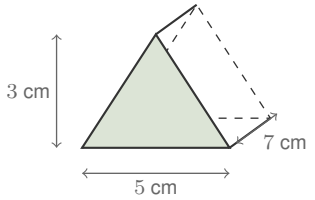
(a) Name the shape of the shaded cross-section (1)

(b) Find its area (1)

(c) Find the volume (1)

(3 marks)

2 Find the volume of this triangular prism.



(a) Find the area of the triangular cross-section (2)

(b) Find the volume (1)

(3 marks)

3 A prism has a cross-sectional area of 18 cm^2 and a length of 9 cm. Find its volume.

(2)

(2 marks)

4 A triangular prism has a cross-section with base 12 cm and perpendicular height 5 cm. The prism is 20 cm long.

(a) Find the area of the cross-section (2)

(b) Find the volume (1)

(c) **Explain why the 20 cm face cannot be used as the cross-section.** (2)

(5 marks)